



Citation for published version:

Ramsden, A 2009, 'Exploring the use of QR Codes as a Learning Technology', Paper presented at Association for Learning Technology Conference 2009 (ALT-C 2009), Manchester, UK United Kingdom, 8/09/09 - 10/09/09.

Publication date:
2009

[Link to publication](#)

University of Bath

Alternative formats

If you require this document in an alternative format, please contact:
openaccess@bath.ac.uk

General rights

Copyright and moral rights for the publications made accessible in the public portal are retained by the authors and/or other copyright owners and it is a condition of accessing publications that users recognise and abide by the legal requirements associated with these rights.

Take down policy

If you believe that this document breaches copyright please contact us providing details, and we will remove access to the work immediately and investigate your claim.

Exploring the use of QR Codes as a Learning Technology

ALT C, 2009

Andy Ramsden
Head of e-Learning
University of Bath

<http://go.bath.ac.uk/andyramsden>



<http://www.bath.ac.uk/lmf/download/35162>

The story ... if this was a book

How might QR Codes be used in Teaching and Learning?

Prologue: What is a QR Code

Chapter 1: QR Codes in T&L

Chapter 2: Improving the feedback loop

Chapter 3: Look no pens

Chapter 4: Connecting the physical to the virtual

Chapter 5: Mobile educational gaming

Chapter 6: Are students aware of QR Codes?



<http://www.flickr.com/photos/89509548@N00/496717386/>

My question to you ...

how do you think QR Codes (or tags) could be used in learning and teaching?

<http://blogs.bath.ac.uk/qrcode/2009/09/04/qr-codes-at-alt-c/>

Prologue: what is a QR code?

A QR Code effectively and efficiently connects the physical world and the electronic



A **QR Code** is a matrix code (or two-dimensional bar code) created by Japanese corporation Denso-Wave in 1994. The "QR" is derived from "Quick Response", as the creator intended the code to allow its contents to be decoded at high speed. QR Codes are common in Japan where they are currently the most popular type of two dimensional codes.

An ever increasing number of tasks can be achieved using a QR code. The core ones are,

- Link to web site
- Send an sms to a phone
- Transfer a phone number
- Provide more text

what is involved?

- QR Code Generator
- A task / activity which is appropriate for a small screen device

- Camera phone
- Good connectivity
- QR Code Reader
- Money



A QR Code Generator

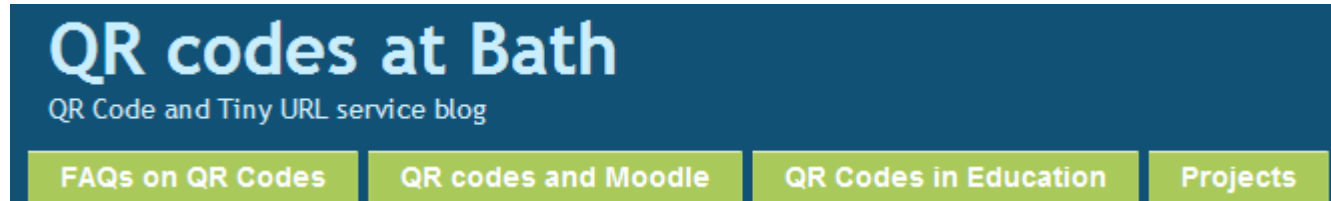
<http://www.bath.ac.uk/barcodes>

A QR Code Reader

<http://www.tigtags.com/getqr>

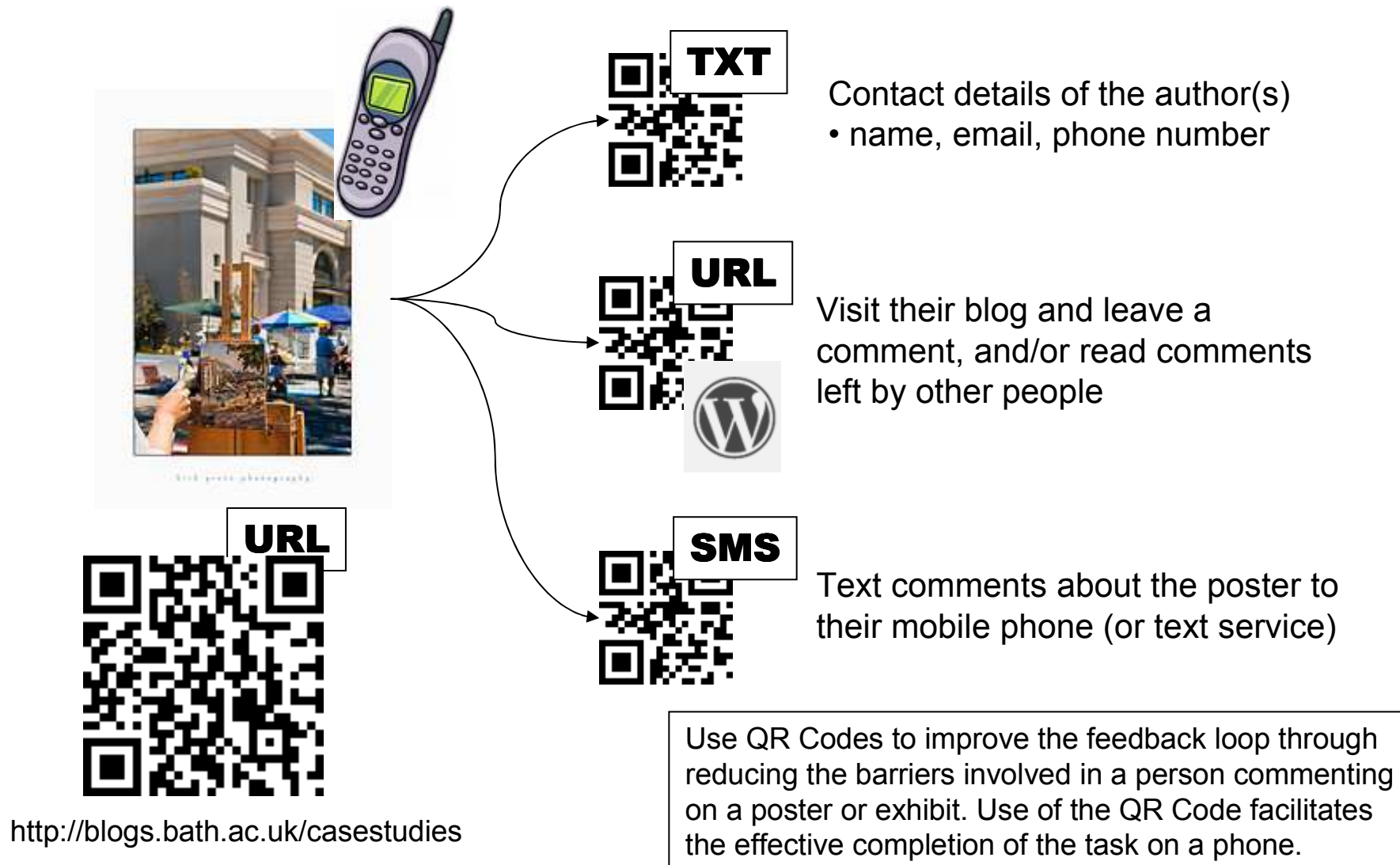
The following example, illustrates scanning a QR Code, adding it to your favourites and accessing the web site:
<http://www.bath.ac.uk/lmf/download/26048>

Chapter 1: QR Codes in T&L




	QR Codes only	QR Codes with other tools
e-Admin	<ul style="list-style-type: none">● Inclusion within web pages (bookmarking)● vCard / Office Hours	<ul style="list-style-type: none">● Subscription to a rss news feed<ul style="list-style-type: none">● Sign up for SMS news alerts using QR codes● Within library catalogue
e-Learning	<ul style="list-style-type: none">● Handbooks linking to online resources<ul style="list-style-type: none">● JIT content in lectures (links, slides etc.,)	<ul style="list-style-type: none">● Classroom formative feedback● Augmented reality gaming● Video (youtube) user guides<ul style="list-style-type: none">● Campus / Library Inductions● Appended to Moodle print outs

Chapter 2: Improving the feedback loop



Chapter 3 (a): Look no pens



URL

Library Services

UoB home: a-z | contact | search

About | Catalogue | Subjects | Online Resources | Your use of the Library | Help

Library catalogue

Go back

Next result

Print/e-mail saved results

Shelfmark browse

Short loan offprints

New books

Theses and dissertations

New search

result 1 of 34 for search "sloman" in anywhere

Economics and the business environment

Sloman, John, 1947-
Publisher: Financial Times Prentice Hall,
Publication date: 2008.
ISBN: 9780273710370

No copies currently on the shelves. Place Hold .


Copy details

Library & Learning Centre (Univ of Bath)

Shelf mark	No. of copies	Loan type	Location
330.65 SLO	1	28 day loan	On loan, due back 22/4/2009

Catalogue record

ISBN: 9780273710370 (pbk.) ;
ISBN: 0273710370 (pbk.) ;
Personal Author: Sloman, John, 1947-
Title: Economics and the business environment / John Sloman.
Edition: 2nd ed.
Publication info: Harlow : Financial Times Prentice Hall, 2008.
Physical descrip: 395 p. + (various pagings) : ill. ; 27 cm.
General Note: Previous ed.: published as The economic environment of business. 2005.
General Note: Includes index.




What's this?




Economics and the business environment

John Sloman



Save

- Place Hold
- Permalink for this result
- Find more by this author
- Find more on these topics
- Order online from BLACKWELL



What's this?

<http://blogs.bath.ac.uk/qrcode/2009/03/23/uni-of-bath-library-including-qr-codes-in-catalogue/>

Chapter 3 (b): rss subscription

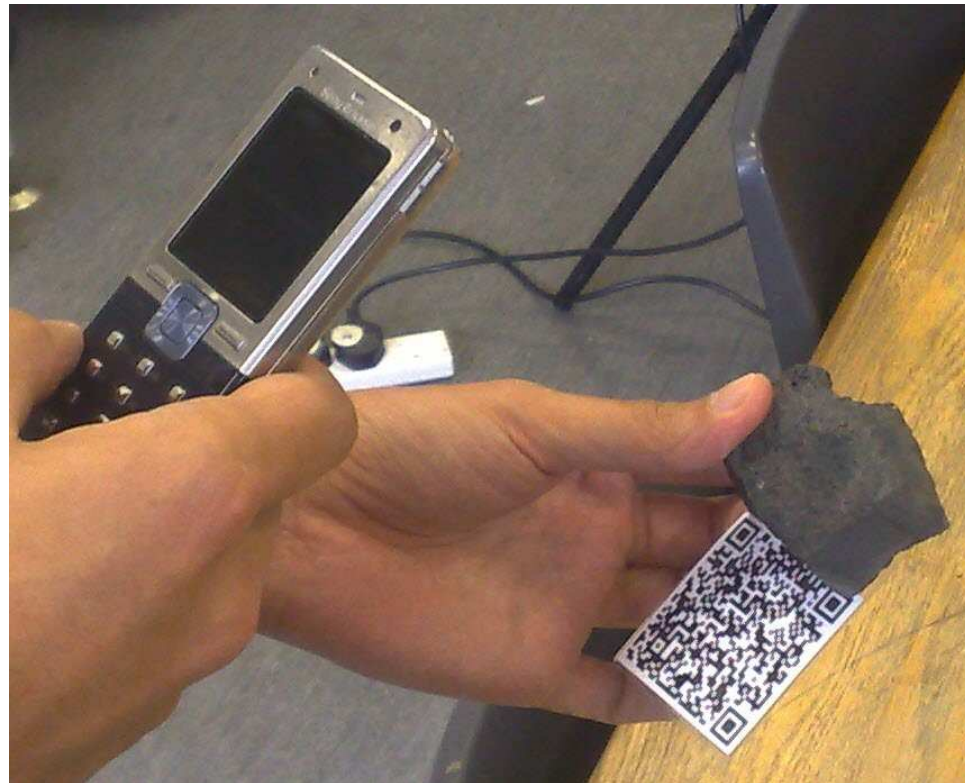


<http://www.mobile-learning.blog-city.com/>



http://www.mobile-learning.blog-city.com/read/qr_codes.rss

Chapter 4: Connecting the physical and the virtual



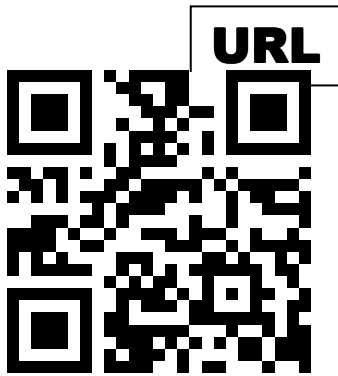
Chapter 5: Mobile educational gaming



<http://www.flickr.com/photos/jazzybam/sets/72157615487815373/>

Chapter 6: Are students aware of QR Codes?

- Do you know what a QR Code is?
 - Yes: 13.8%
 - with 95% confidence interval, then 12.34% - 15.26% of total student population are aware of QR codes.



<http://opus.bath.ac.uk/12782>

84% - scanned
63% - can install a reader

- Have you accessed a QR Code?
 - Yes: 2.2%
 - with 95% confidence interval, then 1.58% - 2.82% of total student population have accessed a QR code.
- The most common action was
 - Web site – 33 responses
 - Read more text – 28 responses
 - Phone a number – 19 responses
 - Send a pre-written SMS – 12 responses?

thank you



<http://blogs.bath.ac.uk/qrcode>

Andy Ramsden

a.ramsden@bath.ac.uk



[andyransden](#)



[slideshare](#)
BETA

[eatbath-present](#)



[jiscqr](#)